

Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: Lectra Clean® (Aerosol)

Product Number (s): 02018, 02018T, 82018

Manufactured By:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

Www.crcindustries.com

General Information
Technical Assistance
(800) 521-3168
Customer Service
(800) 272-4620
(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Colorless liquid; irritating odor at high concentrations

WARNING

Vapor Harmful. Contents Under Pressure.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Potential Health Effects:

EYE: May cause pain and slight eye irritation. Corneal injury is unlikely. Vapors may

irritate eyes.

SKIN: Prolonged or repeated exposure may cause skin irritation. May cause drying or

flaking of skin. A single prolonged exposure is not likely to result in the material

being absorbed through skin in harmful amounts.

INHALATION: Low level exposure may cause anesthetic or irritant effects. Higher exposure levels

may lead to dizziness and drunkenness. Progressively higher levels or longer

exposure may cause unconsciousness and death.

INGESTION: Single dose oral toxicity is considered to be low. Swallowing large amounts may

cause serious injury, even death. If aspirated into lungs, during swallowing or vomiting, liquid may be rapidly absorbed through the lungs and result in injury to

other body systems.

CHRONIC EFFECTS: Chronic immersion of skin in this liquid may lead to absorption through skin. This

may cause numbness in the immersed area. Excessive inhalation of vapors may

increase sensitivity to epinephrine and increase myocardial irritability.

TARGET ORGANS: Central nervous system. Possibly peripheral nervous system, liver or kidney.

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Section 3: Composition/Information on Ingredients

Product Name: Lectra Clean® (Aerosol)

COMPONENT	CAS NUMBER	% by Wt.
Trichloroethylene (TCE)	79-01-6	95 – 99
1,2-Butylene Oxide	106-88-7	0.5
Carbon Dioxide	124-38-9	1 - 5

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician

if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If

breathing is difficult give oxygen. Call a physician.

Ingestion: Do not induce vomiting. Call a physician immediately.

Note to Physicians: Because rapid absorption may occur through lungs if aspirated and cause systemic effects,

the decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely

necessary. No specific antidote. Supportive care.

Section 5: Fire-Fighting Measures

Flammable Properties: This material is nonflammable according to OSHA definitions, however, it can

be made to burn under certain conditions.

Flash Point: None (TCC) Upper Explosive Limit: 44.8% Autoignition Temperature: 788 F Lower Explosive Limit: 8.0%

Suitable Extinguishing Media: Water fog or fine spray. Carbon dioxide, dry chemical, foam. Class B fire

extinguisher.

Products of Combustion: Hydrogen chloride, trace amounts of phosgene, chlorine, and carbon monoxide.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for

protection against suffocation and possible toxic decomposition products. Proper eye

and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product

decomposition. Gases may accumulate in low areas.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8. Do not breathe vapors

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush

into sewers or storm drains.

Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined

space or limited air circulation area, clean-up workers should wear

appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into

proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Vapors of this product are heavier than air and will collect in low areas. Make sure ventilation

removes vapors from low areas. Do not eat, drink or smoke while using this product.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F

to prevent cans from rupturing.

Aerosol Storage Level:

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

	OS	SHA	AC	GIH	01	THER	
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURC	UNIT
						E	
Trichloroethylene	100	200 (v)	50	100	N.E.		ppm
1,2-Butylene oxide	N.E.	N.E.	N.E.	N.E.	2	AIHA	ppm
Carbon dioxide	5000	30000	5000	30,00	N.E.		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation

of vapors. Provide proper exhaust to remove vapors from low areas. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a

confined space, follow applicable OSHA regulations

Respiratory Protection: None required for normal work where adequate ventilation is provided. Use NIOSH-

approved self-contained positive pressure respirators in low circulation areas and for

emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid

contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as PVA, and Viton. Also, use full protective clothing if there is

prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Color: Colorless

Odor: Irritating odor at high concentrations

Specific Gravity: 1.46 @ 70 F Initial Boiling Point: 189 F

Freezing Point: ND

Vapor Pressure: 60 mmHg @ 68 F (20 C)
Vapor Density: 4.53 (air = 1)
Evaporation Rate: > 1 (ether = 1)
Solubility: 0.1 g / 100 g @ 25 C (in water)

pH: NA

Volatile Organic Compounds: wt %: 97.0 g/L: 1400 lbs./gal: 11.66

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Avoid direct sunlight or ultraviolet sources. Avoid open flames, welding arcs, or other high

temperature sources which induce thermal decomposition.

Incompatible Materials: Avoid contact with metals such as: aluminum powders, magnesium powders, potassium,

sodium, and zinc powder. Avoid unintended contact with amines. Avoid contact with

strong bases and strong oxidizers.

Hazardous Decomposition Products: Hydrogen chloride, trace amounts of chlorine and phosgene

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

ACUTE EFFECTS

Component	<u>Test</u>	Result	<u>Route</u>	<u>Species</u>
trichloroethylene trichloroethylene	LD50 LD50	10,000 mg/kg 4920 mg/kg	dermal oral	rabbit rat
trichloroethylene	LC50	12,500 ppm (4H)	inhalation	rat
1,2-butylene oxide	LD50	500 mg/kg	oral	rat

CHRONIC EFFECTS

Carcinogenicity:

Component Result

OSHA: trichloroethylene hazard communication carcinogen

1,2-butylene oxide hazard communication carcinogen

IARC: trichloroethylene 2A (probably carcinogenic)

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1,2-butylene oxide

NTP: trichloroethylene

2B (possibly carcinogenic)

Reasonably anticipated to be a carcinogen

Mutagenicity: trichloroethylene

in vitro mutagenicity studies were negative

animal mutagenicity studies were predominantly negative

1,2-butylene oxide in vitro mutagenicity studies were positive

animal mutagenicity studies were negative

Other: None

Section 12: Ecological Information

Ecotoxicity: Material is moderately toxic to aquatic organisms on an acute basis.

Persistence / Degradability: Biodegradation may occur under both aerobic and anaerobic conditions.

Bioaccumulation / Accumulation: Bioconcentration potential is low (BCF less than 100).

Mobility in Environment: Potential for mobility in soil is high.

Section 13: Disposal Considerations

Disposal: The dispensed liquid product is a RCRA hazardous waste for toxicity with the following potential waste

codes: U228, F001, F002, F040. (See 40 CFR Part 261.20 – 261.33)

Aerosol containers should be emptied and depressurized before disposal. Empty containers may be

recycled. Any liquid product should be managed as a hazardous waste.

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

Section 14: Transport Information

Proper shipping description:

US DOT (ground): Consumer Commodity, ORM-D

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: trichloroethylene (100 lbs)

1,2-butylene oxide (100 lbs)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

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Section 311/312 Hazard Categories: Fire Hazard No

Reactive Hazard No
Release of Pressure Yes
Acute Health Hazard Yes
Chronic Health Hazard Yes

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting

requirements of Section 313 of Title III of the Superfund Amendments and

Reauthorization Act of 1986 and 40 CFR Part 372: trichloroethylene (96.5%), 1,2-butylene oxide (0.5%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): trichloroethylene, 1,2-butylene oxide

State Regulations

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of

California to cause cancer, birth defects or other reproductive harm: trichloroethylene

State Right to Know:

New Jersey:trichloroethylene,1,2-butylene oxide, carbon dioxidePennsylvania:trichloroethylene,1,2-butylene oxide, carbon dioxideMassachusetts:trichloroethylene,1,2-butylene oxide, carbon dioxideRhode Island:trichloroethylene,1,2-butylene oxide, carbon dioxide

Additional Regulatory Information: None

Section 16: Other Information

NFPA: Health: 2 Flammability: 1 Reactivity: 0

HMIS: Health: 2 Flammability: 1 Reactivity: 0 PPE: B

Prepared By: Michelle Rudnick

CRC #: 458

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Changes since last revision: MSDS reformatted in accordance with ANSI Z400.1-2004

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

Not Applicable CAS: Chemical Abstract Service NA: Parts per Million ND: Not Determined ppm: TCC: Tag Closed Cup NE: Not Established PMCC: Pensky-Martens Closed Cup grams per Liter g/L: PPE: Personal Protection Equipment lbs./gal: pounds per gallon

TWA: Time Weighted Average STEL: Short Term Exposure Limit

OSHA: Occupational Safety and Health Administration

ACGIH American Association of Governmental Industrial Hygienists

NIOSH National Institute of Occupational Safety & Health